Catalog | May 2021



Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

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Harmony

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Advanced operator interface and industrial relays

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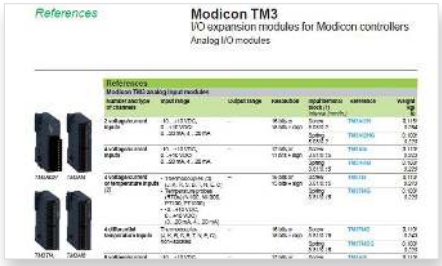
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- **Harmony** Signaling Devices
- **Harmony** Electrical Relays
- **Harmony** Safety

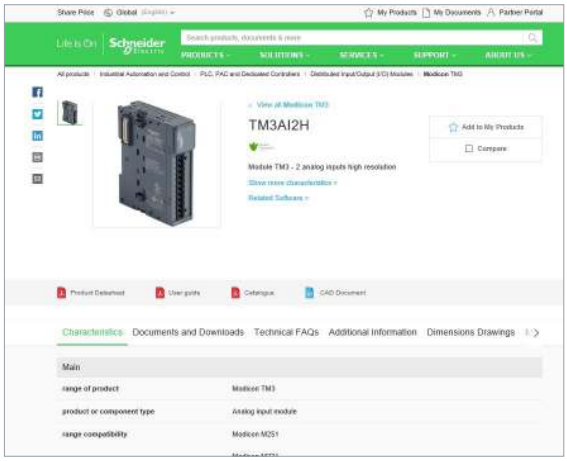
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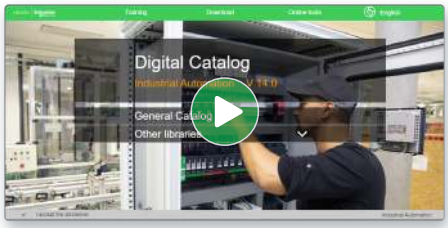


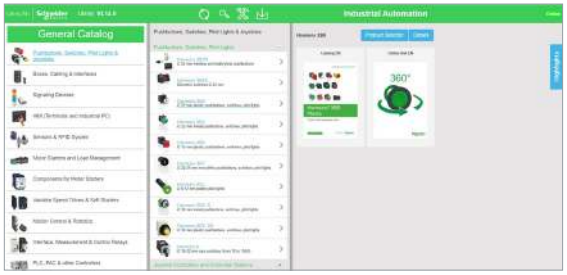


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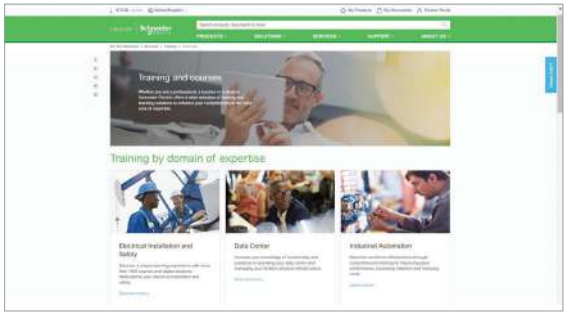


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Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

Harmony Electromechanical Relays

Used to multiply the number of input and output contacts, or for logic processing control

RSL relays are compact modular relays conforming to IEC/EN 61810-1, UL508, CSA C22.2 No. 14, and EAC international standards.

Harmony relays offer interface, miniature, universal, and power electromenchanical relays, from 1 CO to 4 CO contacts, up to 30 A. The electromechanical relays help to reduce the size of enclosures and at the same time increase machine reliability.

RSL relays for compactness

Flexible offer

- Available as a single-referenced complete product (relay and socket) or customer-assembled product
- Wide choice of sockets ranging from 12 to 230 V ∿
- Standard and low level contact types

Enhanced performance

- Sockets with integrated reverse polarity protection circuit
- Relays for high breaking capacity or low-level current application requirements
- Power-on and Relay status LED indicator



LED indicator for RSL relay status

Simple installation and cabling

- Locking/unlocking lever for removing and replacing the relay in the socket
- Simple DIN rail mounting and commoning link accessory
- Choice of screw connector or spring terminal connection for sockets



Screw connector



Spring terminal

RXG relays for reliability

Complete offer

RXG relays offer a broad range of coil voltages, from 6 V to 110 V ⎓ and 24 V to 230 V ∿. The relays are available with/without lockable test button, LED, and clear cover.



Easy to mount and use

These are the latest relays with a single-step lockable test button. The Faston pin terminal mounts quickly and securely. The slim 16 mm/*0.629 in.* socket for 2 CO saves panel space.



Single-step lockable test button

Harmony RXG → Latest interface relay with easy testing function

Harmony Electromechanical Relays
Interface, miniature, and power electromechanical relays

RXG relays for reliability (continued)

Expandable relays
RXG relays can be expanded with protection modules such as diode, diode with LED, varistor with LED, and RC circuit.



RXM industrial relays bring features for easy and improved control of simple and complex automation systems.

RXM relays for automation control

Easy to select
- Wider choice of contacts (2, 3, and 4 CO)
- Broad range of control circuit voltages and different socket types

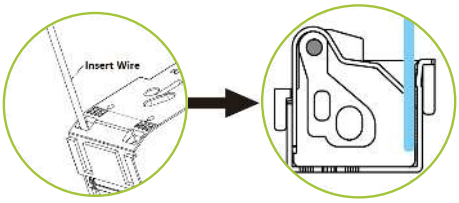


Convenient to use
- One-step lockable test button
- Mechanical indicator for contact status
- “Power On” LED for readiness



LED indicator for relay status

Simple to install
- 64% less wiring time with Push-in Sockets (no screwdriver required)
- Sockets for both DIN rail and panel mounting, time-saving bus jumper
- Direct mounting with DIN rail or flange adapter



Push-in terminal: insert without tool

Designed to perform
- Eco-design with RoHS and REACH
- Flexible add-on protection modules
- Push-in Socket with 223.75 Newton max pull out force, reliable in vibration environment

Note: *The Zelio Relays range name has been changed in 2020 to Harmony Relays. As the timeline for each range is different, during the transition period there will be both Zelio and Harmony ranges shown on different product datasheets and packaging.*

Harmony RXM → Miniature in size and powerful in performance

Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

Type of product			Plug-in relays					
			Interface relays					
								
Number and type of contacts/conventional thermal current (Ith on NO contact)			1 CO/10 A 2 CO/5 A					
Control circuit voltage		∼	24…230 V				Mixed	
		⎓	6…110 V					
Pin type			Flat (Faston type)					
Operational voltage			Up to 250 V ∼					
Durability (operating cycles per hour)		Electrical, resistive load	100,000					
		Mechanical, no-load	10,000,000 for AC coil 10,000,000 for DC coil					
Functions	LED		Yes (depending on version)					
	Mechanical indicator		Yes (depending on version)					
	Test button		Yes, lockable (depending on version)					
	Contact type		Standard					
Accessories	Mounting adapters for DIN rail		No					
	Mounting adapters with fixing lugs		No					
Type references			RXG●●●● *(1)*					
Pages			17					
Type of associated sockets			Sockets					
								
Contact terminal arrangements			Separate				Mixed	
Connection			Screw connector		Push-in terminals		Screw clamp terminals	
Accessories	Protection modules		Yes		Yes		No	
	Timer module		No		No		No	
	Maintaining clamps		Yes (plastic, integrated)					
	Socket identification legend		Yes		Yes		No	
	Bus jumper		Yes		Yes, 2-pole		No	
Conventional thermal current (Ith)			10 A for 1 CO	5 A for 2 CO	10 A	5 A	10 A	5 A
Type references			RGZE1S35M	RGZE1S48M	RGZE05P	RGZE08P	RGZE05E	RGZE08E
Pages			18					

(1) Pre-assembled interface relays RSL1PV●● and RSL1PR●● (standard type relay + socket), RSB (relay + socket + clamp + protection module + label), and RXG (relay + socket + protection module) are also available.
(2) When using relay RSB1A160●● with socket RSZE1S48M, terminals must be linked.

Plug-in relays			
Slim interface relays		Interface relays	
			
1 CO/6 A		1 CO/16 A 1 CO/12 A 2 CO/8 A	
-		24…240 V	
12…60 V		6…110 V	
Flat (PCB type, reinforced)		Flat (PCB type)	
Up to 400 V ∼/300 V ⎓			
60,000		100,000	
10,000,000		30,000,000	
No		Yes (with protection modules)	
No			
No			
Standard and low level		Standard	
No			
No			
RSL1●B4●D *(1)*		RSB●●●●●●● *(1)*	
11		13	
Sockets with LED and protection circuit		Sockets without LED	
			
Separate		Separate	
Screw connector	Spring terminals	Screw connector	Push-in terminals
No	No	Yes	Yes
No	No	No	No
No	No	Yes	Yes (plastic, integrated)
Yes	Yes	Yes	Yes
Yes, 20-pole	Yes, 20-pole	Yes	Yes, 2-pole
6 A	6 A	12 A	(2 terminals) × 10 A *(2)*	12 A	10 A
RSLZV●●	RSLZR●●	RSZE1S35M	RSZE1S48M	RSZE05P	RSZE08P
11		13			

Harmony Electromechanical Relays
Interface, miniature, and power electromechanical relays

Type of product		**Plug-in relays** **Miniature relays**			**Plug-in relays** **Hermetically sealed relays**
					
Number and type of contacts/conventional thermal current (Ith on NO contact)		2 CO/12 A 3 CO/10 A 4 CO/6 A 4 CO/3 A (low level)			4 CO/5 A 4 CO/3 A (low level) 2 CO/5 A
Control circuit voltage	~	24…240 V			6...240 V
	⎓	12…220 V			6…110 V
Pin type		Flat (Faston type)			Flat (Plug-in type) *(3)*
Operational voltage		Up to 250 V ⎓			Up to 264 V ~/121 V ⎓
Durability (operating cycles per hour)	Electrical, resistive load	100,000			100,000
	Mechanical, no-load	10,000,000			10,000,000
Functions	LED	Yes (depending on version)			No
	Mechanical indicator	Yes			No
	Test button	Yes, lockable			No
	Contact type	Standard and low level			Standard and low level
Accessories	Mounting adapters for DIN rail	Yes			No
	Mounting adapters with fixing lugs	Yes			No
Type references		**RXM●●●●●● *(1)***			**782X●XH●●-● *(3)***
Pages		21			27
Type of associated sockets		**Sockets without LED**			**Sockets**
					
Contact terminal arrangements		Mixed		Separate	
Connection		Screw connector	Screw clamp terminals	Screw connector	Push-in terminals
Accessories	Protection modules	Yes		Yes	Yes
	Timer module	No		No	No
	Maintaining clamps	Yes		Yes	Yes (plastic, integrated)
	Socket identification legend	Yes	No	Yes	Yes
	Bus jumper	No		Yes, 2-pole (Ith = 5 A)	Yes, 2-pole
Conventional thermal current (Ith)		10 A	10 A	12 A for 2 CO *(2)* 6 A for 4 CO	12 A for 2 CO 6 A for 4 CO
Type references		**RXZE2M114M**	**RXZE2M114**	**RXZE2S●●●M**	**RXZE14P**
Pages		23			

					
Mixed		Separate		–	–
Screw connector	Screw clamp terminals	Screw connector	Solder lug	PCB pins	
Yes	No	Yes	No	No	
No	No	No	No	No	
Yes	Yes	Yes	Yes	Yes	
Yes	No	Yes	–	–	
–	–	Yes, 2-pole	–	–	
10 A	10 A	10 A	5 A	10 A	
70-782E14-1	**70-461-1**	**70-782EL14-1**	**70-378-1**	**70-379-1**	
27					

(1) Pre-assembled miniature relays RXM (relay + socket + clamp + label) are also available.
(2) Except for sockets RXZE2S11●M: 10 A.
(3) To be used with specified sockets only.
(4) When using relay RSB1A160●● with socket RSZE1S48M, terminals must be linked.

Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

Type of product		Plug-in socket mount	Panel/DIN rail mount with flat (Faston type) terminals	Panel/DIN rail mount with screw terminals
		Power relays		
				
Number and type of contacts/conventional thermal current (Ith on NO contact)		1 NO/30 A 2 NO/25 A		
Control circuit voltage	~	24…240 V		
	⎓	12…24 V		
Pin type		Flat (Faston type)	Flat (Faston type)	Screw type
Operational voltage		Up to 264 V ~/26.4 V ⎓		
Durability (operating cycles per hour)	Electrical, resistive load	100,000		
	Mechanical, no-load	5,000,000		
Functions	LED	Yes	Yes	Yes
	Mechanical indicator	Yes	No	No
	Test button	Yes, lockable	Yes, non-lockable	Yes, non-lockable
	Contact type	Standard		
Accessories	Mounting adapters for DIN rail	No	–	
	Mounting adapters with fixing lugs	No	–	
Type references		**725●XX●BM4L-●**	**725●XX●BC3ML-●**	**725●XX●SC3ML-●**
Pages		29	29	29
Type of associated sockets		**Socket**		
				
Contact terminal arrangements		Separate	–	
Connection		Screw connector	–	
Accessories	Protection modules	Yes	–	
	Timer module	No	–	
	Maintaining clamps	Yes	–	
	Socket identification legend	–	–	
	Bus jumper	No	–	
Conventional thermal current (Ith)		30 A	–	
Type references		**70-725-1**	**–**	
Pages		29	–	

(1) 100,000 for RPM1 and RPM2; 60,000 for RPM3 and RPM4.
(2) 30 A when mounted with 13 mm (0.51 in.) gap between two relays and 25 A when mounted side-by-side without a gap.

Note: *The Zelio Relays range name has been changed in 2020 to Harmony Relays. As the timeline for each range is different, during the transition period there will be both Zelio and Harmony ranges shown on different product datasheets and packaging.*

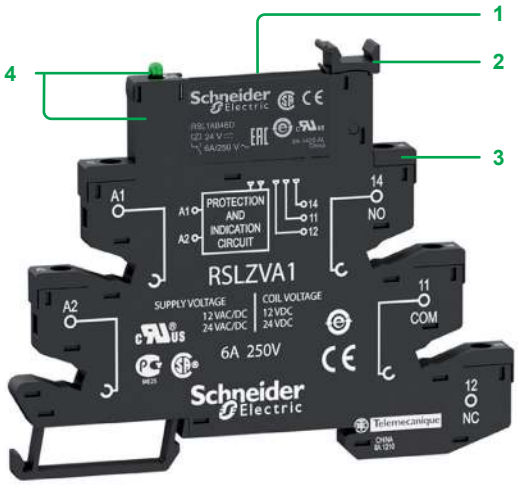
Plug-in relays			Relays with clamp fixing
Power relays	**Universal relays**		**Power relays**
			
1 CO/15 A 2 CO/15 A 3 CO/15 A 4 CO/15 A	2 CO/10 A 3 CO/10 A	2 CO/10 A 3 CO/10 A	2 NO/30 A *(2)* 2 CO/30 A *(2)*
	24…230 V		
12…110 V	12…220 V	12…110 V	12…24 V
Flat (Faston type)	Cylindrical	Flat (Faston type)	Flat (Faston type)
Up to 250 V ~	Up to 250 V ~		Up to 250 V ~
100,000 *(1)*	100,000		100,000
10,000,000	5,000,000		5,000,000
Yes (depending on version)	Yes (depending on version)		–
Yes	Yes		–
Yes, lockable	Yes, lockable		–
Standard	Low level (depending on version)	Standard	–
Yes	No		–
Yes	No		–
RPM●●●●	**RUM●●●●●**		**RPF●●●●**
31	35		39
Sockets without LED	**Sockets without LED**		
			
Mixed	Mixed	Separate	–
Screw clamp terminals	Screw connector		–
Yes	Yes		–
Yes (for 3-pole and 4-pole)	Yes		–
Yes (on socket RPZF1)	Yes		–
Yes	Yes		–
No	No	Yes, 2-pole (Ith = 5 A)	–
16 A	12 A		–
RPZF●	**RUZC●M**	**RUZSC●M**	**RUZSF3M**	**–**
32	35			–

Harmony Electromechanical Relays
Plug-in relays
RSL slim interface relays

Presentation of the range

RSL slim interface relays offer the advantages of compact size and modular design. Their slim width (6 mm/*0.236 in.*) saves space when mounting on a DIN rail at the back of an enclosure.

RSL relays are available as:
■ **Pre-assembled offer**: a single reference comprising a standard relay mounted on its socket.
□ The socket includes a protection circuit (against reverse polarity and surge) and an LED indicator as standard.
□ 2 types of connector are available for wire connection: screw connectors or spring terminals.
□ This pre-assembled solution covers a wide range of operating voltages from 12 to 230 V.
■ **Customer assembly offer**:
□ The relay (standard or low level) and the socket are selected, as required, according to the operating voltage of the application.
□ For maintenance, an **RSL** slim relay can be replaced without disconnecting the socket wiring.



Relay description

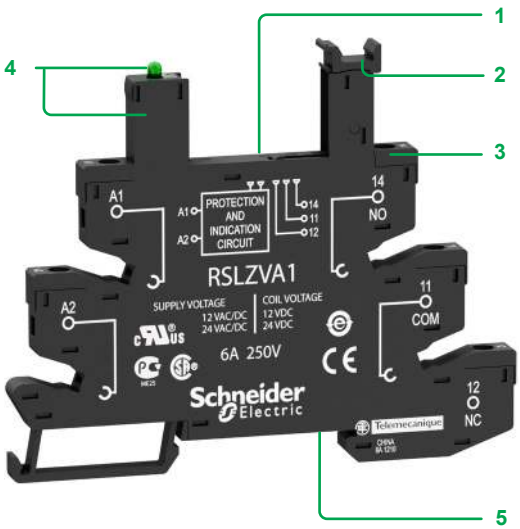
RSL slim interface relays, pre-assembled

1 6 A standard relay with 1 CO contact
2 Lever for retaining or easy withdrawal of the relay from its socket
3 Sockets: wire connection by screw connectors or spring terminals
4 Built-in protection circuit and LED indicator on all sockets



RSL slim interface relay

1 5 flat (PCB type) standard pins



Socket description

Sockets for RSL slim interface relays

1 5 female contacts for the relay pins
2 Retaining lever with marker label
3 Wire connection by screw connectors or spring terminals
4 Built-in protection circuit and LED indicator
5 Locating slot for mounting on DIN rail

Harmony Electromechanical Relays
Plug-in relays
RSL slim interface relays

PF120937 PF120938



RSL1PVBU *RSL1PRPU*

Pre-assembled slim interface relays

Standard relays mounted on socket equipped with LED and protection circuit (Sold in lots of 10)

1 CO contact - 6A thermal current (Ith)

Operating voltage V	Control circuit voltage V	Socket type			
		Screw connector		Spring terminal	
		Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
⎓/∿ 12	⎓ 12	RSL1PVJU (RSL1AB4JD + RSLZVA1)	0.031/*0.068*	RSL1PRJU (RSL1AB4JD + RSLZRA1)	0.029/*0.064*
⎓/∿ 24	⎓ 24	RSL1PVBU (RSL1AB4BD + RSLZVA1)	0.031/*0.068*	RSL1PRBU (RSL1AB4BD + RSLZRA1)	0.029/*0.064*
⎓/∿ 48	⎓ 48	RSL1PVEU (RSL1AB4ED + RSLZVA2)	0.031/*0.068*	RSL1PREU (RSL1AB4ED + RSLZRA2)	0.029/*0.064*
⎓/∿ 110	⎓ 60	RSL1PVFU (RSL1AB4ND + RSLZVA3)	0.031/*0.068*	RSL1PRFU (RSL1AB4ND + RSLZRA3)	0.029/*0.064*
⎓/∿ 230	⎓ 60	RSL1PVPU (RSL1AB4ND + RSLZVA4)	0.031/*0.068*	RSL1PRPU (RSL1AB4ND + RSLZRA4)	0.029/*0.064*

PF120931



RSL1AB4ND

Slim interface relays for customer assembly

Relays with flat (PCB type) standard pins (Sold in lots of 10)

1 CO contact - 6A Thermal current (Ith)

Control circuit voltage V	Standard		Low level	
	Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
⎓ 12	RSL1AB4JD	0.006/*0.013*	RSL1GB4JD	0.006/*0.013*
⎓ 24	RSL1AB4BD	0.006/*0.013*	RSL1GB4BD	0.006/*0.013*
⎓ 48	RSL1AB4ED	0.006/*0.013*	RSL1GB4ED	0.006/*0.013*
⎓ 60	RSL1AB4ND	0.006/*0.013*	RSL1GB4ND	0.006/*0.013*

PF090209 PF090210



RSLZVA● *RSLZRA●*

Sockets equipped with LED and protection circuit (Sold in lots of 10)

Operating voltage V	For use with relays	Socket type			
		Screw connector		Spring terminal	
		Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
⎓/∿ 12 and ⎓/∿ 24	RSL1●B4JD RSL1●B4BD	RSLZVA1	0.025/*0.055*	RSLZRA1	0.023/*0.051*
⎓/∿ 48 and ⎓/∿ 60	RSL1●B4ED RSL1●B4ND	RSLZVA2	0.025/*0.055*	RSLZRA2	0.023/*0.051*
⎓/∿ 110	RSL1●B4ND	RSLZVA3	0.025/*0.055*	RSLZRA3	0.023/*0.051*
⎓/∿ 230	RSL1●B4ND	RSLZVA4	0.025/*0.055*	RSLZRA4	0.023/*0.051*

PF121806



RSLZ2

PF121804

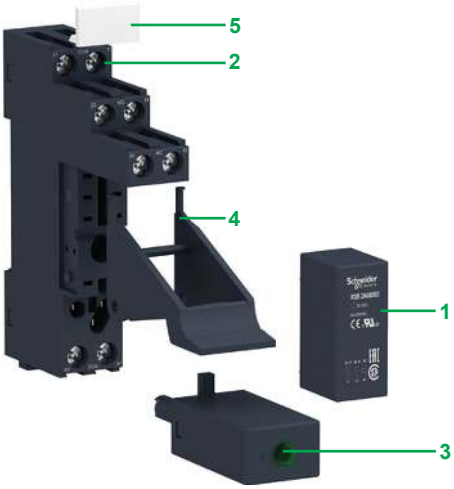


RSLZ3

Socket accessories

Description	For use with	Reference	Weight kg/*lb*
Clip-in legends (2 sheets of 64 legends)	All sockets	RSLZ5	0.001/*0.002*
Bus jumper (10 x 20-pole jumper)	All sockets	RSLZ2	0.003/*0.007*
Partition plate (10 partition plates)	All sockets	RSLZ3	0.001/*0.002*

Harmony Electromechanical Relays
Plug-in relays
RSB interface relays

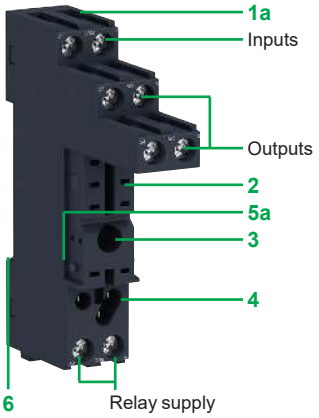


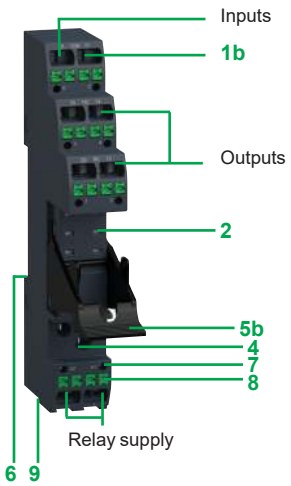
Presentation of the range

The RSB interface relay range comprises:

1 12 A relays with 1 CO contact , 16 A relays with 1 CO contact, and 8 A relays with 2 CO contacts
2 Sockets with separate contact terminals
3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) common to all sockets
4 A plastic maintaining clamp for all sockets
5 Clip-in legend for all sockets

These relays are available in both pre-assembled (single reference) and customer assembled offers.





Socket description

Sockets with separate contact terminals *(1)*

1 **a** Connection by screw connector
  b Connection by push-in terminal
2 5 or 8 female contacts for the relay pins
3 Hole for panel mounting
4 Location for protection modules
5 **a** Locking components for plastic maintaining clamp
  b Built-in plastic maintaining clamp for locking components
6 Locating slot for mounting on DIN rail
7 Test point
8 Push button to release wire
9 Location for bus jumpers

(1) The inputs and outputs are separate from the relay supply.

Harmony Electromechanical Relays
Plug-in relays
RSB interface relays



RSB2A080F7PV

Pre-assembled interface relays

Relays mounted on sockets with protection module (LED version) and integrated clamp
(sold in lots of 30)

Control circuit voltage V	Number and types of contact - Thermal current (Ith)					
	1 CO - 12 A		1 CO - 16 A		2 CO- 8 A	
	Unit Reference	Weight kg/*lb*	Unit Reference	Weight kg/*lb*	Unit Reference	Weight kg/*lb*
12 ⎓	**RSB1A120JDPV** (RSB1A120JD + RSZE1S35M + RSZR215 + RZM031RB + RSZL300)	0.050/ *0.110*	–	–	**RSB2A080JDPV** (RSB2A080JD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300)	0.057/ *0.126*
24 ⎓	**RSB1A120BDPV** (RSB1A120BD + RSZE1S35M + RSZR215 + RZM031RB + RSZL300)	0.050/ *0.110*	**RSB1A160BDPV** (RSB1A160BD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300)	0.057/ *0.126*	**RSB2A080BDPV** (RSB2A080BD + RSZE1S48M + RSZR215 + RZM031RB + RSZL300)	0.057/ *0.126*
24 ∿	**RSB1A120B7PV** (RSB1A120B7 + RSZE1S35M + RSZR215 + RZM021RB + RSZL300)	0.050/ *0.110*	–	–	**RSB2A080B7PV** (RSB2A080B7 + RSZE1S48M + RSZR215 + RZM021RB + RSZL300)	0.057/ *0.126*
120 ∿	**RSB1A120F7PV** (RSB1A120F7 + RSZE1S35M + RSZR215 + RZM021FP + RSZL300)	0.050/ *0.110*	–	–	**RSB2A080F7PV** (RSB2A080F7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300)	0.057/ *0.126*
220 ∿	–	–	–	–	**RSB2A080M7PV** (RSB2A080M7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300)	0.057/ *0.126*
230 ∿	**RSB1A120P7PV** (RSB1A120P7 + RSZE1S35M + RSZR215 + RZM021FP + RSZL300)	0.050/ *0.110*	**RSB1A160P7PV** (RSB1A160P7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300)	0.057/ *0.126*	**RSB2A080P7PV** (RSB2A080P7 + RSZE1S48M + RSZR215 + RZM021FP + RSZL300)	0.057/ *0.126*

Harmony Electromechanical Relays
Plug-in relays
RSB interface relays

PF153636A



RSB1A120JD + RZM031RB + RSZE1S35M

PF153646A



RSB1A160JD + RSZE1S48M

XBK_CP19314D



RSZE05P

Interface relays for customer assembly

RSB interface relays for standard applications (sold in lots of 10)

Control circuit voltage V	Number and type of contacts - Thermal current (Ith) 1 CO - 12 A Unit reference	1 CO - 16 A Unit reference	2 CO - 8 A Unit reference	Weight kg/*lb*
6 ⎓	–	RSB1A160RD	–	0.014/*0.031*
12 ⎓	RSB1A120JD	RSB1A160JD	RSB2A080JD	0.014/*0.031*
24 ⎓	RSB1A120BD	RSB1A160BD	RSB2A080BD	0.014/*0.031*
48 ⎓	RSB1A120ED	RSB1A160ED	RSB2A080ED	0.014/*0.031*
60 ⎓	–	RSB1A160ND	–	0.014/*0.031*
110 ⎓	RSB1A120FD	RSB1A160FD	RSB2A080FD	0.014/*0.031*
24 ∿	RSB1A120B7	RSB1A160B7	RSB2A080B7	0.014/*0.031*
48 ∿	RSB1A120E7	RSB1A160E7	RSB2A080E7	0.014/*0.031*
120 ∿	RSB1A120F7	RSB1A160F7	RSB2A080F7	0.014/*0.031*
220 ∿	RSB1A120M7	RSB1A160M7	RSB2A080M7	0.014/*0.031*
230 ∿	RSB1A120P7	RSB1A160P7	RSB2A080P7	0.014/*0.031*
240 ∿	RSB1A120U7	RSB1A160U7	RSB2A080U7	0.014/*0.031*

Sockets for interface relays

Sockets with separate contact terminal arrangement and screw connector connection

Rated insulation voltage	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
250 V ∿	12 A	RSB1A120●●	10	RSZE1S35M	0.060/*0.132*
	10 A *(1)*	RSB1A160●● *(2)* RSB2A080●●	10	RSZE1S48M	0.050/*0.110*

Sockets with separate contact terminal arrangement, push-in terminals, with built-in clamp

Rated insulation voltage	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
250 V ∿	12 A	RSB1A●●●●●	10	RSZE05P	0.037/*0.082*
	10 A	RSB2A●●●●●	10	RSZE08P	0.042/*0.093*

Protection modules

Description	For use with	Voltage V	Sold in lots of	Unit reference	Weight kg/*lb*
Diode	All sockets	6…230 ⎓	10	RZM040W	0.003/*0.007*
RC circuit	All sockets	24…60 ∿	10	RZM041BN7	0.010/*0.022*
		110…240 ∿	10	RZM041FU7	0.010/*0.022*
Diode + green LED	All sockets	6…24 ⎓	10	RZM031RB	0.004/*0.009*
		24…60 ⎓	10	RZM031BN	0.004/*0.009*
		110…230 ⎓	10	RZM031FPD	0.004/*0.009*
Varistor + green LED	All sockets	6…24 ⎓/∿	10	RZM021RB	0.005/*0.011*
		24…60 ⎓/∿	10	RZM021BN	0.005/*0.011*
		110…230 ⎓/∿	10	RZM021FP	0.005/*0.011*

(1) RSZE1S48M is a two terminal socket each carrying 10 A.
(2) If RSZE1S48M /RSZE08P socket terminals are linked, relay RSB1A160●● can be used up to 16 A. See "Wiring diagrams" on www.se.com/harmonyelectromechanicalrelays

XBK_CP19466



RSZR215

RS_532_CPSCT17003-68-Q



RGZS08

XBK_CP19318

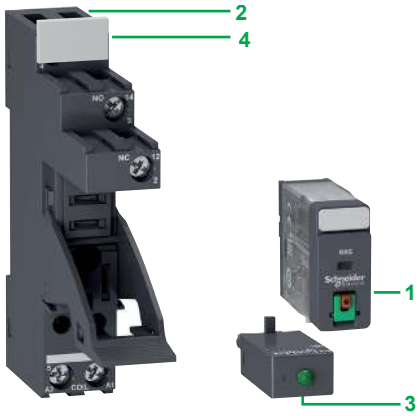


RSZS02

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Plastic maintaining clamp	All sockets	10	RSZR215	0.002/*0.004*
Legend	All sockets	10	RSZL300	0.001/*0.002*
Bus jumper (10 x 8-pole jumper)	For inputs (A1, A2) of RSZE screw sockets (RSZE1S35M, RSZE1S48M)	10	RGZS08	0.006/*0.013*
Bus jumper (10 x 2-pole jumper)	For input (A2) of RSZE push-in sockets (RSZE05P, RSZE08P)	10	RSZS02	0.002/0.004

Harmony Electromechanical Relays
Plug-in relays
RXG interface relays



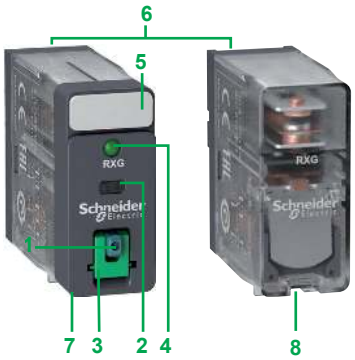
Presentation of the range

RXG relays are interface plug-in relays with Faston pins for better reliability and robust installation. They are used in PLC applications.

The RXG interface relay range comprises:

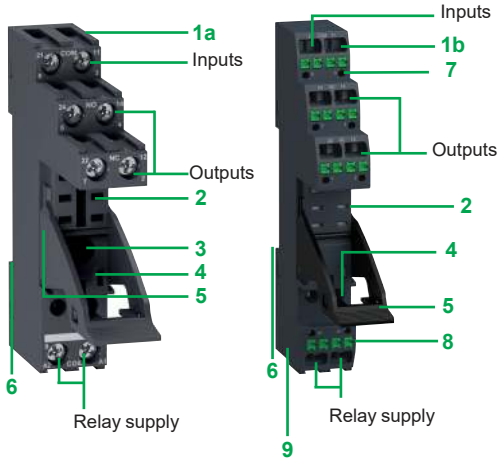
1 10 A relays with 1 CO contact and 5 A relays with 2 CO contacts
2 Sockets with separate or mixed contact terminals, built-in plastic maintaining clamp
3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) for RXG separate sockets
4 Clip-in legends for RXG separate sockets

These relays are available in both pre-assembled (single reference) and customer assembled offers.



Relay description

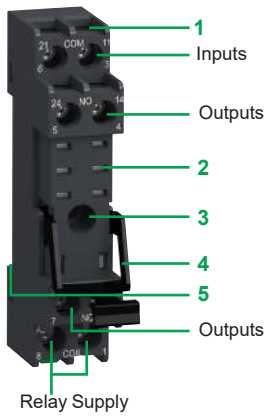
1 Spring-return pushbutton for testing the contacts (green: ⎓, red: ∿)
2 Mechanical “relay status” indicator
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes
4 LED (depending on version) indicating the relay status
5 Removable legend for relay identification
6 5 or 8 Faston type pins
7 Standard cover-type relay with pushbutton, mechanical indicator, and LED options
8 Clear cover-type relay



Socket description

Sockets with separate contact terminals *(1)*

1 a Connection by screw connector
  b Connection by push-in terminal
2 5 or 8 female contacts for the relay pins
3 Hole for panel mounting
4 Location for protection modules
5 Built-in plastic maintaining clamp for locking components
6 Locating slot for mounting on DIN rail
7 Test point
8 Push button to release wire
9 Location for bus jumpers



Sockets with mixed contact terminals *(2)*

1 Connection by screw clamp
2 5 or 8 female contacts for the relay pins
3 Hole for panel mounting
4 Built-in plastic maintaining clamp for locking components
5 Locating slot for mounting on DIN rail

(1) The inputs and outputs are separate from the relay supply.
(2) The outputs NC are mixed with the relay supply, with the outputs NO and inputs being located on the opposite side of the socket.

Harmony Electromechanical Relays
Plug-in relays
RXG interface relays



RXG22BDPV

Pre-assembled interface relays

Relays with lockable test button and LED, mounted on sockets with protection module and integrated clamp

Control circuit voltage V	Sold in lots of	Number and type of contacts - Thermal current (Ith)			
		1 CO - 10 A		2 CO - 5 A	
		Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
24 ⎓	30	**RXG12BDPV** (RXG12BD + RGZE1S35M + RZM031RB)	0.059/*0.130*	**RXG22BDPV** (RXG22BD + RGZE1S48M + RZM031RB)	0.066/*0.145*
24 ∿	30	**RXG12B7PV** (RXG12B7 + RGZE1S35M + RZM021RB)	0.059/*0.130*	**RXG22B7PV** (RXG22B7 + RGZE1S48M + RZM021RB)	0.067/*0.148*
230 ∿	30	**RXG12P7PV** (RXG12P7 + RGZE1S35M + RZM021FP)	0.059/*0.130*	**RXG22P7PV** (RXG22P7 + RGZE1S48M + RZM021FP)	0.067/*0.148*

Relays with LED, mounted on sockets with protection module, and integrated clamp

24 ⎓	30	**RXG13BDPV** (RXG13BD + RGZE1S35M + RZM031RB)	0.058/*0.129*	**RXG23BDPV** (RXG23BD + RGZE1S48M + RZM031RB)	0.066/*0.145*
230 ∿	30	**RXG13P7PV** (RXG13P7 + RGZE1S35M + RZM021FP)	0.059/*0.130*	**RXG23P7PV** (RXG23P7 + RGZE1S48M + RZM021FP)	0.067/*0.148*

Relays with lockable test button and without LED, mounted on sockets with protection module, and integrated clamp

24 ⎓	30			**RXG21BDPV** (RXG21BD + RGZE1S48M + RZM031RB)	0.067/*0.148*
24 ∿	30			**RXG21B7PV** (RXG21B7 + RGZE1S48M + RZM021RB)	0.067/*0.148*
230 ∿	30			**RXG21P7PV** (RXG21P7 + RGZE1S48M + RZM021FP)	0.067/*0.148*



RXG11BD

Interface relays for customer assembly

Standard cover relays with lockable test button

6 ⎓	10	–		**RXG21RD**	0.020/*0.044*
12 ⎓	10	**RXG11JD**		**RXG21JD**	0.020/*0.044*
24 ⎓	10	**RXG11BD**		**RXG21BD**	0.020/*0.044*
24 ∿	10	**RXG11B7**		**RXG21B7**	0.020/*0.044*
48 ∿	10	–		**RXG21E7**	0.020/*0.044*
120 ∿	10	**RXG11F7**		**RXG21F7**	0.020/*0.044*
220 ∿	10	–		**RXG21M7**	0.020/*0.044*
230 ∿	10	**RXG11P7**		**RXG21P7**	0.020/*0.044*

Interface relays for customer assembly

Standard cover relays with lockable test button and LED

Control circuit voltage V	Sold in lots of	Number and type of contacts - Thermal current (Ith)		
		1 CO - 10 A	2 CO - 5 A	
		Unit reference	Unit reference	Weight kg/*lb*
6 ⎓	10	RXG12RD	–	0.020/*0.044*
12 ⎓	10	RXG12JD	RXG22JD	0.020/*0.044*
24 ⎓	10	RXG12BD	RXG22BD	0.020/*0.044*
48 ⎓	10	RXG12ED	RXG22ED	0.020/*0.044*
110 ⎓	10	RXG12FD	RXG22FD	0.020/*0.044*
24 ∿	10	RXG12B7	RXG22B7	0.020/*0.044*
48 ∿	10	RXG12E7	RXG22E7	0.020/*0.044*
120 ∿	10	RXG12F7	RXG22F7	0.020/*0.044*
220 ∿	10	–	RXG22M7	0.020/*0.044*
230 ∿	10	RXG12P7	RXG22P7	0.020/*0.044*

PF132510



RXG22B7

Standard cover relays with LED

12 ⎓	10	RXG13JD	–	0.020/*0.044*
24 ⎓	10	RXG13BD	RXG23BD	0.020/*0.044*
24 ∿	10	RXG13B7	RXG23B7	0.020/*0.044*
48 ∿	10	–	RXG23E7	0.020/*0.044*
120 ∿	10	RXG13F7	RXG23F7	0.020/*0.044*
220 ∿	10	–	RXG23M7	0.020/*0.044*
230 ∿	10	RXG13P7	RXG23P7	0.020/*0.044*

PF132505



RXG13BD

Clear cover relays

12 ⎓	10	RXG15JD	–	0.019/*0.042*
24 ⎓	10	RXG15BD	RXG25BD	0.019/*0.042*
24 ∿	10	–	RXG25B7	0.018/*0.040*
120 ∿	10	RXG15F7	RXG25F7	0.018/*0.040*
220 ∿	10	–	RXG25M7	0.018/*0.040*
230 ∿	10	RXG15P7	RXG25P7	0.018/*0.040*

PF132507



RXG15BD

Harmony Electromechanical Relays
Plug-in relays
RXG interface relays

PF132517



RGZE1S48M

XBK_CP19316B



RGZE05P

Zelio_CP21001



RGZE05E

PF132522



RZM031RB

PF132519



RSZL300

RS_532_CPSCT17003



RGZS08

PF132518



RGZR215

XBK_CP19319A



RSZS02

Sockets for interface relays

Sockets with separate contact terminals arrangement, screw connector connection, and built-in clamp

Description	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
1 CO socket with 1 pole	10 A	**RXG1●●●**	10	RGZE1S35M	0.034/*0.075*
2 CO socket with 2 poles	5 A	**RXG2●●●**	10	RGZE1S48M	0.042/*0.093*

Sockets with separate contact terminals arrangement, push-in terminals, and built-in clamp

Description	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
1 CO socket with 1 pole	10 A	**RXG1●●●**	10	RGZE05P	0.039/*0.086*
2 CO socket with 2 poles	5 A	**RXG2●●●**	10	RGZE08P	0.042/*0.093*

Sockets with mixed contact terminals arrangement, screw clamp connection, and built-in clamp

1 CO socket with 1 pole	10 A	**RXG1●●●**	10	RGZE05E	0.024/*0.053*
2 CO socket with 2 poles	5 A	**RXG2●●●**	10	RGZE08E	0.026/*0.057*

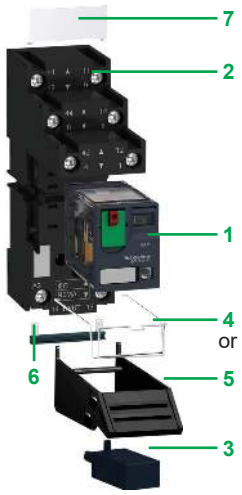
Protection modules

Description	For use with	Voltage V	Sold in lots of	Unit reference	Weight kg/*lb*
Diode	All separate sockets	6…230 ⎓	10	RZM040W	0.003/*0.007*
RC circuit	All separate sockets	24…60 ∿	10	RZM041BN7	0.010/*0.022*
		110…240 ∿	10	RZM041FU7	0.010/*0.022*
Diode + green LED	All separate sockets	6…24 ⎓	10	RZM031RB	0.004/*0.009*
		24…60 ⎓	10	RZM031BN	0.004/*0.009*
		110…230 ⎓	10	RZM031FPD	0.004/*0.009*
Varistor + green LED	All separate sockets	6…24 ∿/⎓	10	RZM021RB	0.005/*0.011*
		24…60 ∿/⎓	10	RZM021BN	0.005/*0.011*
		110…230 ∿/⎓	10	RZM021FP	0.005/*0.011*

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Plastic maintaining clamp	All separate sockets	10	RGZR215	0.002/*0.004*
Legend	All separate sockets	10	RSZL300	0.001/*0.002*
Clip-in legends (sheet of 16 legends)	All relays	10	RGZL520	0.001/*0.002*
Bus jumper (10 x 8-pole jumper)	For inputs (A1, A2) of RGZE screw sockets (RGZE1S35M, RGZE1S48M)	10	RGZS08	0.006/*0.013*
Bus jumper (10 x 2-pole jumper)	For input (A2) of RGZE push-in sockets (RGZE05P, RGZE08P)	10	RSZS02	0.002/*0.004*

Harmony Electromechanical Relays
Plug-in relays
RXM miniature relays

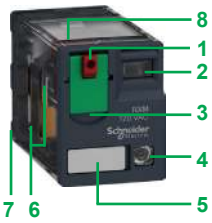


Presentation of the range

The RXM miniature relay range comprises:

1 12 A relays with 2 CO contacts, 10 A relays with 3 CO contacts, 6 A relays with 4 CO contacts, and 3 A “low level” relays with 4 CO contacts (all these relays have the same dimensions)
2 Sockets with mixed or separate contact terminals
3 Protection modules (diode, RC circuit, or varistor) common to all sockets
4 Metal maintaining clamp for all sockets
5 Plastic maintaining clamp for all sockets
6 2-pole bus jumper that can be used on sockets with separate contact terminals in order to simplify cabling when creating an equipotential link between the coil terminals
7 Clip-in legends for all sockets except **RXZE2M114**

These relays are available in both pre-assembled (single reference) and customer assembled offers.



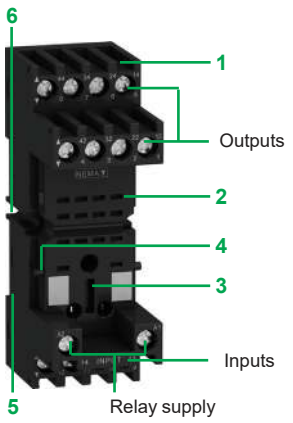
Relay description

1 Spring-return pushbutton for testing the contacts (green: ⎓, red: ∿)
2 Mechanical “relay status” indicator
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes
4 LED (depending on version) indicating the relay status
5 Removable legend for relay identification
6 4 notches for rail mounting adapter or panel mounting adapter with mounting lugs
7 8, 11, or 14 Faston type pins
8 Area by which the product can be easily gripped
9 Mounting adapter enabling direct mounting of the relay on a panel
10 Mounting adapter enabling direct mounting of the relay on a DIN rail

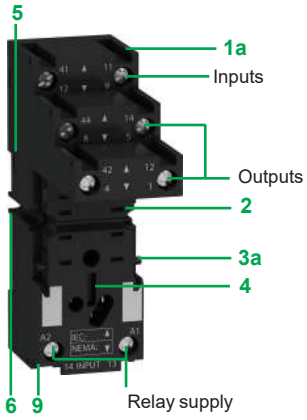




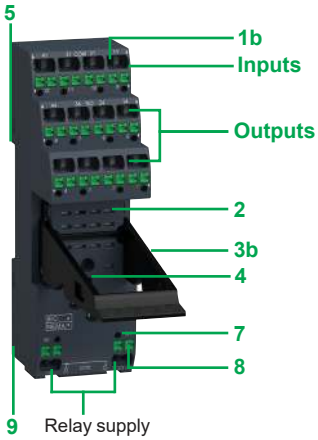




Sockets with mixed contact terminals



Sockets with separate contact terminals



Sockets with separate contact terminals

Socket description

Sockets with mixed contact terminals *(1)*

1 Connection by screw clamp terminals or screw connector
2 14 female contacts for the relay pins
3 Location for protection modules
4 Locking components for plastic and metal maintaining clamps
5 Locating slot for mounting on DIN rail with compression spring or mounting clip
6 2 or 4 holes for panel mounting

Sockets with separate contact terminals *(2)*

1 a Connection by screw connector
  b Connection by push in terminal
2 8, 11, or 14 female contacts for the relay pins
3 a Locking components for plastic and metal maintaining clamps
  b Built-in plastic maintaining clamp for locking components
4 Location for protection modules
5 Locating slot for mounting on DIN rail with compression spring or mounting clip
6 2 holes for panel mounting
7 Test point
8 Push button to release wire
9 Location for bus jumpers

(1) The inputs are mixed with the relay supply, with the outputs being located on the opposite side of the socket.
(2) The inputs and outputs are separate from the relay supply.

Harmony Electromechanical Relays
Plug-in relays
RXM miniature relays

RS_532_CPMFS180779C



RXM4AB1BDPVS

Pre-assembled interface relays

Relays without LED, mounted on sockets with clamp and socket legend (sold in lots of 30)

Control circuit voltage V	Type of socket	Number and type of contacts - Thermal current (Ith)			
		2 CO - 10 A		4 CO - 6 A	
		Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
24 ⎓	Mixed terminal socket	–	–	**RXM4AB1BDPVM** (RXM4AB1BD + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*
24 ∿		–	–	**RXM4AB1B7PVM** (RXM4AB1B7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*
230 ∿		–	–	**RXM4AB1P7PVM** (RXM4AB1P7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*
24 ⎓	Separate terminal socket	–	–	**RXM4AB1BDPVS** (RXM4AB1BD + RXZE2S114M + RXZR335 + RXZL520)	0.113/ *0.249*
24 ∿		–	–	**RXM4AB1B7PVS** (RXM4AB1B7 + RXZE2S114M + RXZR335 + RXZL520)	0.113/ *0.249*
230 ∿		–	–	**RXM4AB1P7PVS** (RXM4AB1P7 + RXZE2S114M + RXZR335 + RXZL520)	0.113/ *0.249*

Relays with LED, mounted on sockets with clamp and socket legend (sold in lots of 30)

24 ⎓	Mixed terminal socket	**RXM2AB2BDPVM** (RXM2AB2BD + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*	**RXM4AB2BDPVM** (RXM4AB2BD + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*
24 ∿		**RXM2AB2B7PVM** (RXM2AB2B7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*	**RXM4AB2B7PVM** (RXM4AB2B7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*
230 ∿		**RXM2AB2P7PVM** (RXM2AB2P7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*	**RXM4AB2P7PVM** (RXM4AB2P7 + RXZE2M114M + RXZR335 + RXZL520)	0.099/ *0.218*
24 ⎓	Separate terminal socket	**RXM2AB2BDPVS** (RXM2AB2BD + RXZE2S108M + RXZR335 + RXZL520)	0.101/ *0.223*	**RXM4AB2BDPVS** (RXM4AB2BD + RXZE2S114M + RXZR335 + RXZL520)	0.113/ *0.249*
24 ∿		**RXM2AB2B7PVS** (RXM2AB2B7 + RXZE2S108M + RXZR335 + RXZL520)	0.101/ *0.223*	**RXM4AB2B7PVS** (RXM4AB2B7 + RXZE2S114M + RXZR335 + RXZL520)	0.113/ *0.249*
230 ∿		**RXM2AB2P7PVS** (RXM2AB2P7 + RXZE2S108M + RXZR335 + RXZL520)	0.101/ *0.223*	**RXM4AB2P7PVS** (RXM4AB2P7 + RXZE2S114M + RXZR335 + RXZL520)	0.113/ *0.249*


PF153500

RXM2AB1BD


PF106011

RXM2AB1F7


PF153504

RXM2AB2ED


PF153506

RXM2AB2F7


PF153502A

RXM4GB1BD


PF153500A

RXM4GB1P7


PF153504A

RXM4GB2BD


PF153506A

RXM4GB2F7

Miniature relays for customer assembly

RXM miniature relays without LED (sold in lots of 10)

Control circuit voltage V	Number and type of contacts - Thermal current (Ith)					
	2 CO - 12 A		3 CO - 10 A		4 CO - 6 A	
	Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
12 ⎓	RXM2AB1JD	0.037/*0.082*	RXM3AB1JD	0.037/*0.082*	RXM4AB1JD	0.037/*0.082*
24 ⎓	RXM2AB1BD	0.037/*0.082*	RXM3AB1BD	0.037/*0.082*	RXM4AB1BD	0.037/*0.082*
48 ⎓	RXM2AB1ED	0.037/*0.082*	RXM3AB1ED	0.037/*0.082*	RXM4AB1ED	0.037/*0.082*
110 ⎓	RXM2AB1FD	0.037/*0.082*	RXM3AB1FD	0.037/*0.082*	RXM4AB1FD	0.037/*0.082*
220 ⎓	–	–	–	–	RXM4AB1MD	0.037/*0.082*
24 ∿	RXM2AB1B7	0.037/*0.082*	RXM3AB1B7	0.037/*0.082*	RXM4AB1B7	0.037/*0.082*
48 ∿	RXM2AB1E7	0.037/*0.082*	RXM3AB1E7	0.037/*0.082*	RXM4AB1E7	0.037/*0.082*
120 ∿	RXM2AB1F7	0.037/*0.082*	RXM3AB1F7	0.037/*0.082*	RXM4AB1F7	0.037/*0.082*
230 ∿	RXM2AB1P7	0.037/*0.082*	RXM3AB1P7	0.037/*0.082*	RXM4AB1P7	0.037/*0.082*
240 ∿	–	–	–	–	RXM4AB1U7	0.037/*0.082*

RXM miniature relays with LED (sold in lots of 10)

12 ⎓	RXM2AB2JD	0.037/*0.082*	RXM3AB2JD	0.037/*0.082*	RXM4AB2JD	0.037/*0.082*
24 ⎓	RXM2AB2BD	0.037/*0.082*	RXM3AB2BD	0.037/*0.082*	RXM4AB2BD	0.037/*0.082*
48 ⎓	RXM2AB2ED	0.037/*0.082*	–	–	RXM4AB2ED	0.037/*0.082*
110 ⎓	RXM2AB2FD	0.037/*0.082*	RXM3AB2FD	0.037/*0.082*	RXM4AB2FD	0.037/*0.082*
125 ⎓	–	–	–	–	RXM4AB2GD	0.037/*0.082*
24 ∿	RXM2AB2B7	0.037/*0.082*	RXM3AB2B7	0.037/*0.082*	RXM4AB2B7	0.037/*0.082*
48 ∿	RXM2AB2E7	0.037/*0.082*	RXM3AB2E7	0.037/*0.082*	RXM4AB2E7	0.037/*0.082*
120 ∿	RXM2AB2F7	0.037/*0.082*	RXM3AB2F7	0.037/*0.082*	RXM4AB2F7	0.037/*0.082*
230 ∿	RXM2AB2P7	0.037/*0.082*	RXM3AB2P7	0.037/*0.082*	RXM4AB2P7	0.037/*0.082*

RXM miniature relays with low level contacts, without LED (sold in lots of 10)

Control circuit voltage V	Number and type of contacts Thermal current (Ith)	
	4 CO - 3 A	
	Unit reference	Weight kg/*lb*
12 ⎓	RXM4GB1JD	0.037/*0.082*
24 ⎓	RXM4GB1BD	0.037/*0.082*
24 ∿	RXM4GB1B7	0.037/*0.082*
48 ∿	RXM4GB1E7	0.037/*0.082*
120 ∿	RXM4GB1F7	0.037/*0.082*
230 ∿	RXM4GB1P7	0.037/*0.082*

RXM miniature relays with low level contacts, with LED (sold in lots of 10)

12 ⎓	RXM4GB2JD	0.037/*0.082*
24 ⎓	RXM4GB2BD	0.037/*0.082*
48 ⎓	RXM4GB2ED	0.037/*0.082*
125 ⎓	RXM4GB2GD	0.037/*0.082*
220 ⎓	RXM4GB2MD	0.037/*0.082*
24 ∿	RXM4GB2B7	0.037/*0.082*
48 ∿	RXM4GB2E7	0.037/*0.082*
120 ∿	RXM4GB2F7	0.037/*0.082*
230 ∿	RXM4GB2P7	0.037/*0.082*
240 ∿	RXM4GB2U7	0.037/*0.082*

Harmony Electromechanical Relays
Plug-in relays
RXM miniature relays

PF153523A-34-Q



RXZE2M114M

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
Mixed	Screw clamp	RXM2●●●●● *(3)* RXM4●●●●●	10	RXZE2M114 *(1)*	0.048/*0.106*
	Screw connector	RXM2●●●●● *(3)* RXM4●●●●●	10	RXZE2M114M *(1)*	0.056/*0.124*
Seperate	Push-in terminal	RXM2●●●●● RXM4●●●●●	10	RXZE14P	0.080/*0.176*
	Screw connector	RXM2●●●●●	10	RXZE2S108M *(2)*	0.058/*0.128*
		RXM3●●●●●	10	RXZE2S111M *(1)*	0.066/*0.146*
		RXM4●●●●●	10	RXZE2S114M *(1)*	0.070/*0.154*

XBK_CP19313B



RXZE14P

Protection modules

Description	Voltage V	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Diode	6...250 ⎓	All sockets	10	RXM040W	0.003/*0.007*
RC circuit	24...60 ∿	All sockets	10	RXM041BN7	0.010/*0.022*
	110...240 ∿	All sockets	10	RXM041FU7	0.010/*0.022*
Varistor	6...24 ∿/⎓	All sockets	10	RXM021RB	0.030/*0.066*
	24...60 ∿/⎓	All sockets	10	RXM021BN	0.030/*0.066*
	110...240 ∿/⎓	All sockets	10	RXM021FP	0.030/*0.066*

PF106018



RXM041●●7

Timing relays

Description	For use with	Unit reference	Weight kg/*lb*
2 or 4 timed CO contacts (function A)	RXZE●●●●●● sockets	REXL2●● *(4)*	–
		REXL4●● *(4)*	–

(1) Thermal current (Ith): 10 A.
(2) Thermal current (Ith): 12 A.
(3) When mounting relay RXM2●●●●● on socket RXZE2M●●●●, the thermal current should not exceed 10 A.
(4) Please refer to "Harmony Timer Relays" catalog.
(5) Test button becomes inaccessible.

Harmony Electromechanical Relays
Plug-in relays
RXM miniature relays

RE_529_CPF_IR18001B



REXL4●●

XBK_CP193219A



RXZR315

PF153330A



RXZS2

XBK_CP19318A



RSZS02

PF153532A



RXZE2FA

PF153528A



RXZ400

PF153533A



RXZL520

Accessories

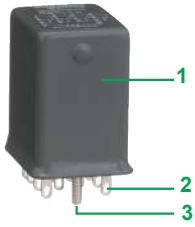
Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Metal maintaining clamp	All sockets	10	RXZ400	0.001/*0.002*
Plastic maintaining clamp	All sockets except push-in socket RXZE14P	10	RXZR335	0.005/*0.011*
	RXZE14P	10	RXZR315	0.004/*0.009*
2-pole bus jumper (Ith: 5 A)	All screw sockets with separate contacts (RXZE2S●●●●)	10	RXZS2	0.005/*0.011*
Bus jumper (10 x 2-pole jumper)	For input (A2) of RXZE push in sockets (RXZE14P)	10	RSZS02	0.002/*0.004*
Mounting adapter with panel mounting lugs	RXM2●●●● RXM3●●●●	10	RXZE2FA	0.002/*0.004*
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520	0.080/*0.176*
	RXZE14P	10	RXZL300	0.004/*0.009*
	All sockets except RXZE2M114	10	RXZL420	0.001/*0.002*

(1) Thermal current (Ith): 10 A.
(2) Thermal current (Ith): 12 A.
(3) When mounting relay RXM2●●●●● on socket RXZE2M●●●●, the thermal current should not exceed 10 A.
(4) Please refer to "Harmony Timer Relays" catalog.
(5) Test button becomes inaccessible.

Harmony Electromechanical Relays

Plug-in relays

782H hermetically sealed relays

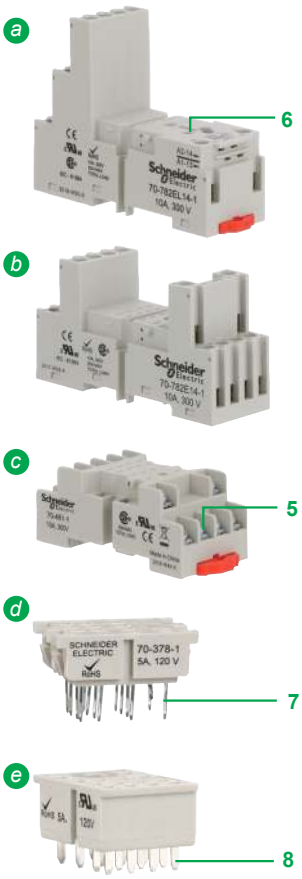


Presentation of the range

The hermetically sealed 782H series relays comply with UL Class I Division 2 requirements for use in hazardous locations. They are suitable for installation in harsh, hazardous, and corrosive environments like offshore mining and refineries in the oil and gas, petrochemical, chemical, and mines and minerals sectors.

782H hermetically sealed relays comprise:
- Relays with 3 A/5 A, 2 CO/4 CO contacts
- Sockets with multiple configuration, finger-safe according to IP20, and compatible with DIN rail or panel mounting
- Accessories (protection modules and/or LED indicator)

These relays are available in panel, DIN rail, PCB, and chassis mount versions.



Description

Relay

1 Hermetically sealed enclosure
2 Flat (Plug-in type) terminal
3 Stub to mount in panel

Socket

4 There are different types of sockets:
- DIN rail or panel mount sockets
  - a with screw connector
  - b with screw connector
  - c with screw clamp terminals
- Other types of terminals
  - d Solder terminals for chassis mount
  - e Printed circuit terminals for PCB mount

5 Connection by screw connector
6 Location for protection modules
7 Solder lug
8 PCB pins



782XDXH21-12D

70-782EL14-1_DA



70-782EL14-1

70-782E14-1_DA



70-782E14-1

70-461-1_DA



70-461-1

70-379-1_DA



70-379-1

70-378-1_DA



70-378-1

70-BSMM-24_DA



70-BSMM-24

70-BSMD-250_FRONT



70-BSMD-250

70-BSMLG-24_DA



70-BSMLG-24

16-1342_DA



16-1342

PF153530A



RXZS2

Plug-in relays

782H hermetically sealed relays (sold in lots of 10)

Coil voltage	Contact type - Thermal current (Ith)					
	4 CO - 3 A		4 CO - 5 A		2 CO - 5 A	
V	Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
6 ∼	782XDXH10-6A	0.045/*0.099*	–	–		
24 ∼	782XDXH10-24A	0.045/*0.099*	–	–		
120 ∼	782XDXH10-120A	0.045/*0.099*	782XDXH21-120A	0.045/*0.099*		
240 ∼	782XDXH10-240A	0.045/*0.099*	782XDXH21-240A	0.045/*0.099*		
6 ⎓	782XDXH10-6D	0.045/*0.099*	–	–		
12 ⎓	782XDXH10-12D	0.045/*0.099*	782XDXH21-12D	0.045/*0.099*		
24 ⎓	782XDXH10-24D	0.045/*0.099*	782XDXH21-24D	0.045/*0.099*	782XBXH21-24D	*0.045/0.099*
48 ⎓	–	–	782XDXH21-48D	0.045/*0.099*		
110 ⎓	782XDXH10-110D	0.045/*0.099*	–	–		

Sockets for all 782H relays

Contact terminal arrangement	Connection	Mounting	Unit reference	Sold in lots of	Weight Kg/*lb*
Mixed	Screw clamp terminals	DIN rail/ Panel	RXZE2M114 *(1)*	10	0.07/*0.154*
	Screw connector		RXZE2M114M *(1)* 70-782E14-1		0.06/*0.132*
	Screw clamp terminals		70-461-1		0.044/*0.097*
Separate	Screw connector		RXZE2S114M *(1)* 70-782EL14-1		0.06/*0.132*
	Solder terminals	Chasis	70-378-1		0.007/*0.015*
	Printed circuit terminals	PCB	70-379-1		0.007/*0.015*

Protection modules

Description	For use with sockets	Coil voltage	Unit reference	Sold in lots of	Weight Kg/*lb*
Diode	70-782EL14-1, 70-782E14-1	6 to 250 ⎓	70-BSMD-250	10	–
MOV suppressor		24 ≂ 120 ≂ 240 ≂	70-BSMM-24 70-BSMM-120 70-BSMM-240		–
LED indicator		24 ≂	70-BSMLG-24		–

Accessories

Description	For use with sockets	Unit reference	Sold in lots of	Weight Kg/*lb*
Metal spring clip	All sockets	16-1342	10	–
Plastic ID tag	70-782E14-1, 70-782EL14-1	RXZL420		–
Insulated coil bus jumper system	70-782EL14-1	RXZS2		–

(1) 782H relays are:

- *UL Recognized when used with **RXZE●** sockets*
- *UL Listed when used with **70-782●** sockets*

Harmony Electromechanical Relays
Plug-in and DIN rail/Panel mount relays
725 power relays

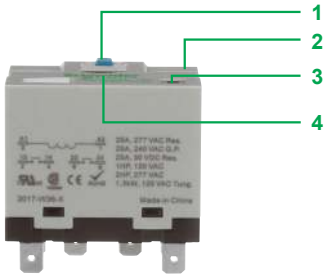


Presentation of the range

The 725 series are power relays offering multiple mounting options for ease of use, enhanced reliability, and robust installation. They are used in high-capacity switching applications such as EV charging, CNC machines, and HVAC compressors.

725 power relays comprise:
- 30 A relays with 1 NO contact and 25 A relays with 2 NO contacts
- Socket for plug-in type version with flat (Faston type) terminals
- Protection modules as accessories (diode, separate LED indicator, RC circuit)

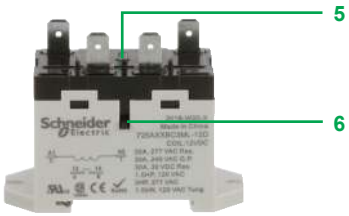
Apart from Plug-in relays with flat (Faston type) terminals, these relays are also available in Panel/DIN rail mount versions with screw type and flat (Faston type) terminals.



Description

Plug-in socket mount power relay

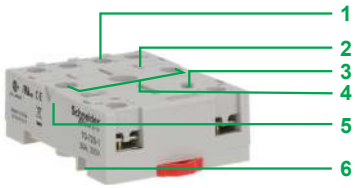
1 Spring-return pushbutton for testing the contacts (blue: ⎓; red: ∿)
2 Mechanical “relay status” indicator
3 LED indicating the relay status
4 Lock-down door enabling forced maintaining of the contacts for testing purposes



DIN rail/Panel mount power relay

5 LED indicating the relay status
6 Side-mounted spring-return pushbutton for testing the contacts
7 Touch-proof cover (for screw type terminal)





Socket

1 Connection by screw connector
2 6 female contacts for the relay pins
3 Location for protection modules
4 Holes for panel mounting
5 Spring clip location
6 Locating slot for mounting on DIN rail

Harmony Electromechanical Relays

Plug-in and DIN rail/Panel mount relays

725 power relays

725AXXBC3ML-12D_DA



725AXXBC3ML-12D

725AXXSC3ML-12D_FRONT



725AXXSC3ML-12D

725BXXBM4L-12D_FRONT



725BXXBM4L-12D

70-725-1_DA



70-725-1

70-ASMD-250_FRONT



70-ASMD-250

70-ASMM-120_DA



70-ASMM-120

16-725SC-1_DA



16-725SC-1

Power relays

725 power relays with DIN rail/Panel mounting (sold in lots of 10)

Coil voltage	Terminal style	Contact type - (Thermal current (Ith))			
		2 NO - 25 A		1 NO - 30 A	
V		Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
24 ∼	Flat (Faston type)	725BXXBC3ML-24A	0.120/*0.265*	725AXXBC3ML-24A	0.120/*0.265*
	Screw terminals	725BXXSC3ML-24A	0.120/*0.265*	725AXXSC3ML-24A	0.120/*0.265*
120 ∼	Flat (Faston type)	725BXXBC3ML-120A	0.120/*0.265*	725AXXBC3ML-120A	0.120/*0.265*
	Screw terminals	725BXXSC3ML-120A	0.120/*0.265*	725AXXSC3ML-120A	0.120/*0.265*
240 ∼	Flat (Faston type)	725BXXBC3ML-240A	0.120/*0.265*	725AXXBC3ML-240A	0.120/*0.265*
	Screw terminals	725BXXSC3ML-240A	0.120/*0.265*	725AXXSC3ML-240A	0.120/*0.265*
12 ⎓	Flat (Faston type)	725BXXBC3ML-12D	0.120/*0.265*	725AXXBC3ML-12D	0.120/*0.265*
	Screw terminals	725BXXSC3ML-12D	0.120/*0.265*	725AXXSC3ML-12D	0.120/*0.265*
24 ⎓	Flat (Faston type)	725BXXBC3ML-24D	0.120/*0.265*	725AXXBC3ML-24D	0.120/*0.265*
	Screw terminals	725BXXSC3ML-24D	0.120/*0.265*	725AXXSC3ML-24D	0.120/*0.265*

725 power relays with Plug-in socket mounting (sold in lots of 10)

24 ∼	Flat (Faston type)	725BXXBM4L-24A	0.120/*0.265*	725AXXBM4L-24A	0.120/*0.265*
120 ∼	Flat (Faston type)	725BXXBM4L-120A	0.120/*0.265*	725AXXBM4L-120A	0.120/*0.265*
240 ∼	Flat (Faston type)	725BXXBM4L-240A	0.120/*0.265*	725AXXBM4L-240A	0.120/*0.265*
12 ⎓	Flat (Faston type)	725BXXBM4L-12D	0.120/*0.265*	725AXXBM4L-12D	0.120/*0.265*
24 ⎓	Flat (Faston type)	725BXXBM4L-24D	0.120/*0.265*	725AXXBM4L-24D	0.120/*0.265*

Socket

Contact terminal arrangement	Connection	Sold in lots of	Relay type	Unit reference	Weight Kg/*lb*
Separate	Screw connector	10	725 relays with Plug-in socket mount cover	70-725-1	0.055/*0.121*

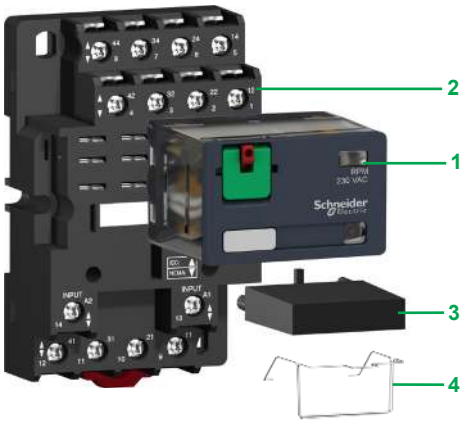
Socket modules

Description	For use with sockets	Sold in lots of	Coil voltage V	Unit reference	Weight Kg/*lb*
Diode	70-725-1	10	6 to 250 ⎓	70-ASMD-250	–
MOV suppressor			24 ≂ 120 ≂ 240 ≂	70-ASMM-24 70-ASMM-120 70-ASMM-240	–

Socket accessories

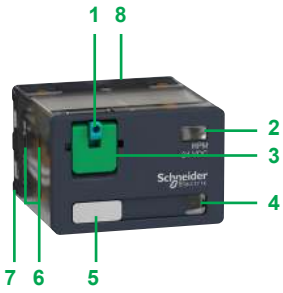
Description	For use with sockets	Sold in lots of	Unit reference	Weight Kg/*lb*
Spring clip	70-725-1	10	16-725SC-1	–

Harmony Electromechanical Relays
Plug-in relays
RPM power relays



Presentation of the range

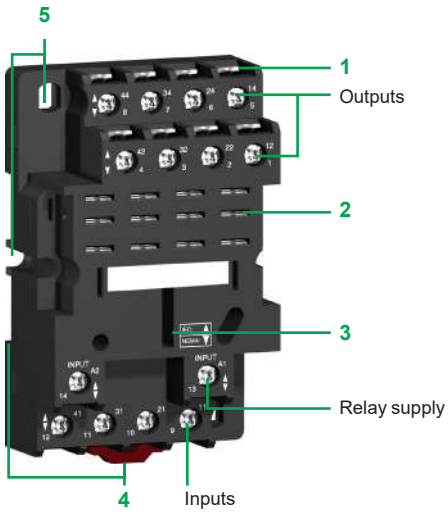
The RPM power relay range comprises:
1. 15 A relay with 1, 2, 3, and 4 CO contacts
2. Sockets with mixed contact terminals
3. Protection modules (diode, RC circuit, or varistor) or 1 timer module (these protection modules are common to all sockets except for the timer module, which can be used on 3-pole or 4-pole sockets only)
4. Metal maintaining clamp for single-contact relays



Relay description

1. Spring-return pushbutton for testing the contacts (green: ⎓, red: ∿)
2. Mechanical “relay status” indicator
3. Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes
4. LED (depending on version) indicating the relay status
5. Removable legend for relay identification
6. 4 notches for rail mounting adapter or panel mounting adapter with mounting lugs
7. 5, 8, 11, or 14 Faston type pins
8. Area by which the product can be easily gripped
9. Mounting adapter enabling direct mounting of the relay on a panel
10. Mounting adapter enabling direct mounting of the relay on a ⊔ rail





Socket description

Sockets with mixed contact terminals *(1)*

1. Connection by screw clamp terminals
2. 5, 8, 11, or 14 female contacts for the relay pins
3. Location for protection modules or the timer module
4. Locating slot for mounting on rail with mounting clip
5. 2 or 4 holes for panel mounting

(1) The inputs are mixed with the relay supply, with the outputs being located on the opposite side of the socket.

Harmony Electromechanical Relays
Plug-in relays
RPM power relays



RPM41BD



RPM41P7



RPM42BD



RPM42P7

Power relays for customer assembly

Power relays without LED (sold in lots of 10)

Control circuit voltage V	Number and type of contacts - Thermal current (Ith) 1 CO - 15 A		2 CO - 15 A		3 CO - 15 A		4 CO - 15 A	
	Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
12 ⎓	RPM11JD	0.026/*0.057*	RPM21JD	0.036/*0.079*	RPM31JD	0.054/*0.119*	RPM41JD	0.071/*0.157*
24 ⎓	RPM11BD	0.026/*0.057*	RPM21BD	0.036/*0.079*	RPM31BD	0.054/*0.119*	RPM41BD	0.071/*0.157*
48 ⎓	RPM11ED	0.026/*0.057*	RPM21ED	0.036/*0.079*	RPM31ED	0.054/*0.119*	RPM41ED	0.071/*0.157*
110 ⎓	RPM11FD	0.026/*0.057*	RPM21FD	0.036/*0.079*	RPM31FD	0.054/*0.119*	RPM41FD	0.071/*0.157*
24 ∿	RPM11B7	0.026/*0.057*	RPM21B7	0.036/*0.079*	RPM31B7	0.054/*0.119*	RPM41B7	0.071/*0.157*
48 ∿	RPM11E7	0.026/*0.057*	RPM21E7	0.036/*0.079*	RPM31E7	0.054/*0.119*	RPM41E7	0.071/*0.157*
120 ∿	RPM11F7	0.026/*0.057*	RPM21F7	0.036/*0.079*	RPM31F7	0.054/*0.119*	RPM41F7	0.071/*0.157*
230 ∿	RPM11P7	0.026/*0.057*	RPM21P7	0.036/*0.079*	RPM31P7	0.054/*0.119*	RPM41P7	0.071/*0.157*

Power relays with LED (sold in lots of 10)

12 ⎓	RPM12JD	0.026/*0.057*	RPM22JD	0.036/*0.079*	RPM32JD	0.054/*0.119*	RPM42JD	0.071/*0.157*
24 ⎓	RPM12BD	0.026/*0.057*	RPM22BD	0.036/*0.079*	RPM32BD	0.054/*0.119*	RPM42BD	0.071/*0.157*
48 ⎓	RPM12ED	0.026/*0.057*	RPM22ED	0.036/*0.079*	RPM32ED	0.054/*0.119*	RPM42ED	0.071/*0.157*
110 ⎓	–	–	RPM22FD	0.036/*0.079*	–	–	RPM42FD	0.071/*0.157*
24 ∿	RPM12B7	0.026/*0.057*	RPM22B7	0.036/*0.079*	RPM32B7	0.054/*0.119*	RPM42B7	0.071/*0.157*
48 ∿	RPM12E7	0.026/*0.057*	RPM22E7	0.036/*0.079*	RPM32E7	0.054/*0.119*	RPM42E7	0.071/*0.157*
120 ∿	RPM12F7	0.026/*0.057*	RPM22F7	0.036/*0.079*	RPM32F7	0.054/*0.119*	RPM42F7	0.071/*0.157*
230 ∿	RPM12P7	0.026/*0.057*	RPM22P7	0.036/*0.079*	RPM32P7	0.054/*0.119*	RPM42P7	0.071/*0.157*

PF142831B



RPZF4 + Relay RPM42P7

PF106044



RUW24●●●

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
Mixed	Screw clamp terminals	RPM1●●●	10	RPZF1	0.042/*0.093*
		RPM2●●●	10	RPZF2	0.054/*0.119*
		RPM3●●●	10	RPZF3	0.072/*0.159*
		RPM4●●●	10	RPZF4	0.094/*0.207*

Protection modules

Description	Voltage V	Socket type	Sold in lots of	Unit reference	Weight kg/*lb*
Diode	6...250 ⎓	RPZF1 RPZF2	10	RXM040W	0.003/*0.007*
		RPZF3 RPZF4	10	RUW240BD	0.004/*0.009*
RC circuit	24...60 ∿	RPZF1 RPZF2	10	RXM041BN7	0.010/*0.022*
	110...240 ∿	RPZF1 RPZF2	10	RXM041FU7	0.010/*0.022*
		RPZF3 RPZF4	10	RUW241P7	0.004/*0.009*
Varistor	6...24 ∿/⎓	RPZF1 RPZF2	10	RXM021RB	0.030/*0.066*
	24...60 ∿/⎓	RPZF1 RPZF2	10	RXM021BN	0.030/*0.066*
	110...240 ∿/⎓	RPZF1 RPZF2	10	RXM021FP	0.030/*0.066*
	24 ∿/⎓	RPZF3 RPZF4	10	RUW242B7	0.004/*0.009*
	240 ∿/⎓	RPZF3 RPZF4	10	RUW242P7	0.004/*0.009*

Timer module *(1)*

Description	Voltage V	Socket type	Reference	Weight kg/*lb*
Multifunction	24… 240 ∿/⎓	RPZF3 RPZF4	RUW101MW	0.020/*0.044*

(1) See timer module description (selection of functions and time delays) on www.se.com/harmonyelectromechanicalrelays.

PF120922



RPZ4DA

PF120923



RPZ1FA

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Metal maintaining clamp (for single-pole relays)	RPZF1	10	RPZR235	0.001/*0.002*
Mounting adapters for ⊔ rail *(1)*	RPM4●●●	10	RPZ4DA	0.006/*0.013*
Mounting adapters with panel mounting lugs	RPM1●●●	10	RPZ1FA	0.002/*0.004*
	RPM2●●●	10	RXZE2FA	0.002/*0.004*
	RPM3●●●	10	RPZ3FA	0.003/*0.007*
Clip-in legends (sheet of 108 legends)	All relays	10	RXZL520	0.080/*0.176*
Clip-in legends (sheet of 16 legends)	All relays	10	RGZL520	0.080/*0.176*

(1) Test button becomes inaccessible.

Harmony Electromechanical Relays
Plug-in relays
RUM universal relays

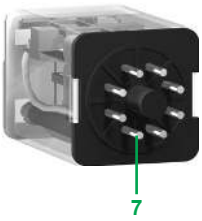


Presentation of the range

The RUM universal relay range comprises:

1 10 A relays with 2 and 3 CO contacts, and cylindrical or flat (Faston type) pins (all these relays have the same dimensions)
2 Sockets with mixed or separate contact terminals
3 Protection modules (diode, RC circuit, or varistor) or 1 timer module, common to all RUM sockets
4 Metal maintaining clamp for all RUM sockets
5 2-pole bus jumper that can be used on sockets with separate contact terminals in order to simplify cabling when creating an equipotential link between the coil terminals
6 Clip-in legends for the sockets



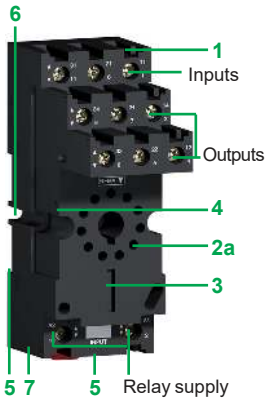


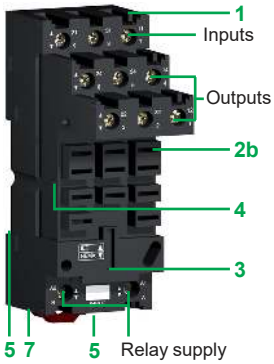


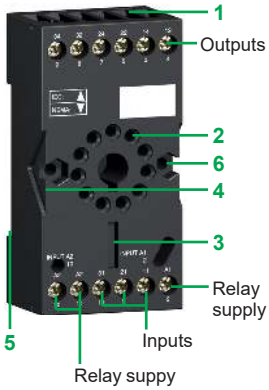
Relay description

1 Spring-return pushbutton for testing the contacts (green: ⎓, red: ∿)
2 Mechanical “relay status” indicator
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes *(1)*
4 LED (depending on version) indicating the relay status
5 Removable legend for relay identification
6 Area by which the product can be easily gripped
7 8 or 11 cylindrical pins
8 8 or 11 flat (Faston type) pins

(1) During operation, this lock-down door must always be in the closed position.







Socket description

Sockets with separate contact terminals *(1)*

1 Connection by screw connector
2 **a** 8 or 11 female contacts for the relay cylindrical pins
b 11 female contacts for the relay flat pins
3 Location for protection modules or the timer module
4 Locking component for metal maintaining clamp
5 Locating slot for mounting on DIN rail with mounting clip
6 2 holes for panel mounting
7 Location for bus jumpers (see dimensions for mounting on sockets on www.se.com/harmonyelectromechanicalrelays)

Sockets with mixed contact terminals

1 Connection by screw connector
2 8 or 11 female contacts for the relay cylindrical pins
3 Location for protection modules or the timer module
4 Locking component for metal maintaining clamp
5 A locating slot for mounting on DIN rail
6 2 holes for panel mounting

(1) The inputs and outputs are separate from the relay supply.

PF140700C



RUMC21BD

PF140725B



RUMC21F7

PF140708C



RUMC32BD

PF140735



RUMF32F7

Universal relays for customer assembly

Relays for standard applications, with lockable test button and without LED (sold in lots of 10)

Pins	Control circuit voltage V	Number and type of contacts - Thermal current (Ith) 2 CO - 10 A		3 CO - 10 A	
		Unit reference	Weight kg/*lb*	Unit reference	Weight kg/*lb*
Cylindrical	⎓ 12	RUMC21JD	0.086/*0.190*	RUMC31JD	0.086/*0.190*
	⎓ 24	RUMC21BD	0.086/*0.190*	RUMC31BD	0.086/*0.190*
	⎓ 48	–	–	RUMC31ED	0.086/*0.190*
	⎓ 60	–	–	RUMC31ND	0.086/*0.190*
	⎓ 110	RUMC21FD	0.086/*0.190*	RUMC31FD	0.086/*0.190*
	⎓ 125	–	–	RUMC31GD	0.086/*0.190*
	⎓ 220	–	–	RUMC31MD	0.086/*0.190*
	∿ 24	RUMC21B7	0.086/*0.190*	RUMC31B7	0.086/*0.190*
	∿ 48	–	–	RUMC31E7	0.086/*0.190*
	∿ 120	RUMC21F7	0.086/*0.190*	RUMC31F7	0.086/*0.190*
	∿ 230	RUMC21P7	0.086/*0.190*	RUMC31P7	0.086/*0.190*
Flat (Faston type)	⎓ 12	RUMF21JD	0.086/*0.190*	RUMF31JD	0.086/*0.190*
	⎓ 24	RUMF21BD	0.086/*0.190*	RUMF31BD	0.086/*0.190*
	⎓ 48	RUMF21ED	0.086/*0.190*	RUMF31ED	0.086/*0.190*
	⎓ 110	RUMF21FD	0.086/*0.190*	RUMF31FD	0.086/*0.190*
	∿ 24	RUMF21B7	0.086/*0.190*	RUMF31B7	0.086/*0.190*
	∿ 48	RUMF21E7	0.086/*0.190*	RUMF31E7	0.086/*0.190*
	∿ 120	RUMF21F7	0.086/*0.190*	RUMF31F7	0.086/*0.190*

Relays for standard applications, with lockable test button and LED (sold in lots of 10)

Cylindrical	⎓ 12	RUMC22JD	0.086/*0.190*	RUMC32JD	0.086/*0.190*
	⎓ 24	RUMC22BD	0.086/*0.190*	RUMC32BD	0.086/*0.190*
	⎓ 48	RUMC22ED	0.086/*0.190*	RUMC32ED	0.086/*0.190*
	⎓ 110	RUMC22FD	0.086/*0.190*	RUMC32FD	0.086/*0.190*
	⎓ 125	–	–	RUMC32GD	0.086/*0.190*
	∿ 24	RUMC22B7	0.086/*0.190*	RUMC32B7	0.086/*0.190*
	∿ 48	RUMC22E7	0.086/*0.190*	RUMC32E7	0.086/*0.190*
	∿ 120	RUMC22F7	0.086/*0.190*	RUMC32F7	0.086/*0.190*
	∿ 230	RUMC22P7	0.086/*0.190*	RUMC32P7	0.086/*0.190*
Flat (Faston type)	⎓ 12	RUMF22JD	0.086/*0.190*	RUMF32JD	0.086/*0.190*
	⎓ 24	RUMF22BD	0.086/*0.190*	RUMF32BD	0.086/*0.190*
	⎓ 110	–	0.086/*0.190*	RUMF32FD	0.086/*0.190*
	∿ 24	RUMF22B7	0.086/*0.190*	RUMF32B7	0.086/*0.190*
	∿ 120	RUMF22F7	0.086/*0.190*	RUMF32F7	0.086/*0.190*
	∿ 230	RUMF22P7	0.086/*0.190*	RUMF32P7	0.086/*0.190*

(1) The inputs are mixed with the relay supply, with the outputs being located on the opposite side of the socket.

Harmony Electromechanical Relays
Plug-in relays
RUM universal relays

PF140733B



RUZSC3M + Relay RUMC3●●●

PF106027



RUW241P7

PF516229



RUW101MW

DF536485



RUZC200

DF535203



RUZS2

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
Mixed	Screw connector	RUMC2●●●	10	RUZC2M	0.054/*0.119*
		RUMC3●●●	10	RUZC3M	0.054/*0.119*
Separate	Screw connector	RUMC2●●●	10	RUZSC2M	0.095/*0.209*
		RUMC3●●●	10	RUZSC3M	0.100/*0.220*
		RUMF2●●●	10	RUZSF3M	0.095/*0.209*
		RUMF3●●●			

Protection modules

Description	For use with	Voltage V	Sold in lots of	Unit reference	Weight kg/*lb*
Diode	All RUM sockets	⎓ 6…250	10	RUW240BD	0.004/*0.009*
RC circuit	All RUM sockets	∿ 110…240	10	RUW241P7	0.004/*0.009*
Varistor	All RUM sockets	∿/⎓ 24	10	RUW242B7	0.004/*0.009*
		∿/⎓ 240	10	RUW242P7	0.004/*0.009*

Timer module

Description	For use with	Voltage V	Reference	Weight kg/*lb*
Multifunction	All RUM sockets	∿/⎓ 24… 240	RUW101MW	0.020/*0.044*

Timing relays

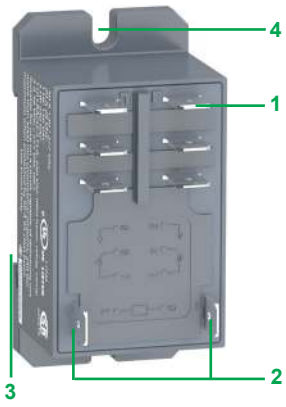
Description	For use with	Reference	Weight kg/*lb*
2 timed CO contacts (single-function or multifunction)	RUZC●M sockets	RE48A●● *(1)*	–

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Metal maintaining clamp	All RUM sockets	10	RUZC200	0.001/*0.002*
2-pole bus jumper (Ith: 5 A)	All RUM sockets with separate contacts	10	RUZS2	0.005/*0.011*
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520	0.086/*0.190*
	All RUM sockets with separate contacts	10	RUZL420	0.001/*0.002*

(1) Please refer to "Harmony Timer Relays" catalog.

Harmony Electromechanical Relays
Relays with clamp mounting
RPF power relays



Presentation of the range

RPF power relays with 2 CO or 2 NO contacts comprise:

1 4 or 6 Faston type pins
2 2 relay supply pins
3 Locating slot for mounting on DIN rail
4 2 holes for panel mounting

Harmony Electromechanical Relays
Relays with clamp mounting
RPF power relays

PF120361C



RPF2A●●

Power relays

Control circuit voltage V	Sold in lots of	Number and type of contacts - Thermal current (Ith) 2 NO - 30 A *(1)* Unit reference	2 CO - 30 A *(1)* Unit reference	Weight kg/*lb*
12 ⎓	10	RPF2AJD	RPF2BJD	0.082/ *0.181*
24 ⎓	10	RPF2ABD	RPF2BBD	0.082/ *0.181*
24 ∿	10	RPF2AB7	RPF2BB7	0.082/ *0.181*
120 ∿	10	RPF2AF7	RPF2BF7	0.082/ *0.181*
230 ∿	10	RPF2AP7	RPF2BP7	0.082/ *0.181*

(1) 30 A when mounted with 13 mm (0.51 in.) gap between two relays and 25 A when mounted side by side without a gap.

Harmony Electromechanical Relays
Interface, miniature and power electromechanical relays

Relays

Contact types

Symbol	Configuration	EU	USA
	Make contact (Normally Open)	NO	SPST-NO DPST-NO nPST-NO *(1)*
	Break contact (Normally Closed)	NC	SPST-NC DPST-NC nPST-NC *(1)*
	Changeover Contact	CO	SPDT DPDT nPDT *(1)*

Utilization categories

Category	Type of current	Applications
AC-1	∿ 1-phase ∿ 3-phase	Resistive or slightly inductive loads
AC-3	∿ 3-phase	Starting and braking of squirrel cage motors; reversing direction of rotation only after stopping of motor
AC-4	∿ 3-phase	Starting of squirrel cage motors, inching; plugging, reversing direction of rotation
DC-1	⎓	Resistive or slightly inductive loads *(2)*
AC-14	∿ 1-phase	Control of electromagnetic loads (< 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets
AC-15	∿ 1-phase	Control of electromagnetic loads (> 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets
DC-13	⎓	Control of electromagnetic loads, auxiliary control relays, power contactors, magnetic solenoid valves, and electromagnets

Protection categories

Category	Explanation	Condition
RT 0	Unenclosed relay	Relay not provided with a protective case
RT I	Dust protected relay	Relay provided with a case that helps to protect its mechanism from dust
RT II	Flux-proof relay	Relay capable of being automatically soldered without allowing the migration of solder fluxes beyond the intended areas
RT III	Wash-tight relay	Relay capable of being automatically soldered and then washed to remove flux residues and minimize the possibility of ingress of flux or washing solvents
RT IV	Sealed relay	Relay provided with a case that has no venting to the outside atmosphere
RT V	Hermetically sealed relay	Sealed relay with an enhanced level of sealing

(1) n = number of contacts.
(2) The switchable voltage can be doubled, for an equal current, by connecting 2 contacts in series.

Protection modules

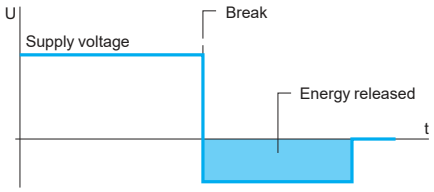
Whenever an inductive load is de-energized (coil of a relay or of a contactor), an overvoltage appears at its terminals. This voltage peak can reach several thousand volts and a frequency of several MHz.
It is likely to disturb the operation of automation systems that contain electronic devices.
Protection modules are used to reduce the voltage peak on de-energization and therefore limit the energy of interference signals to a level that will not disturb surrounding coils and electronic devices.

These modules are used to help reduce the risk of:
- electromagnetic compatibility problems
- deterioration of contact materials
- damage to insulation due to overvoltage
- damage to electronic components

Diode protection module (with or without LED)

■ Advantages
- accumulation of energy allowing current to flow in the same direction
- absence of any voltage peaks at the coil terminals
- low cost

■ Disadvantages
- increase in relay drop-out time (3 to 4 times the usual time)
- no polarity protection
- de-energization of the relay

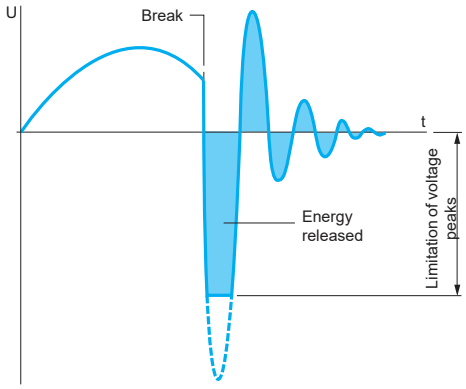


Coil voltage with diode protection module (⎓ only)

Protection module with varistor

■ Advantages
- can be used with ∿ and ⎓ supply
- voltage peak limited to about 2 Un
- little effect on relay drop-out time

■ Disadvantages
- no modification of coil's own oscillating frequency
- limitation of switching frequency

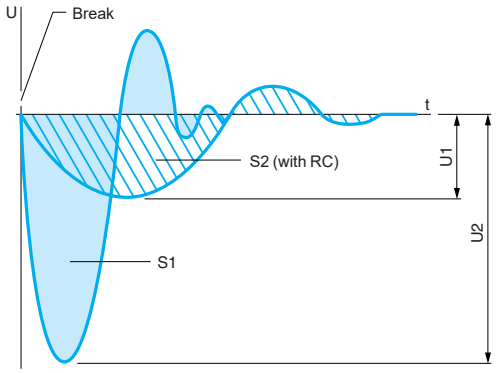


Coil voltage with varistor protection module (∿ and ⎓)

Protection module with RC circuit

■ Advantages
- coil oscillating frequency reduced to about 150 Hz
- voltage peak limited to 3 Un
- little effect on relay drop-out time

■ Disadvantages
- no protection for low voltages



Coil voltage with RC circuit protection module (∿ only)

S1 = S2 = Energy released

Harmony Electromechanical Relays

Interface, miniature and power electromechanical relays

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725AXXSC3ML-24A	29
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